Airfinity S Rooftop

TRANE
TECHNOLOGIES

Airfinity S Rooftop

Cooling capacity: 16-59 kW | **Heating capacity: 15-58 kW**

- AFD compressor technology with low GWP R454B refrigerant.
- Integrated and pre-configured controls that substantially reduce installation and commissioning time
- Optimized heat exchanger to improve efficiency in heating mode
- Horizontal or downflow air flow configuration
- Perfect retrofitting on existing Voyager I and II Rooftops units (sizes 17-36)

All-in-one system at the lowest operating costs

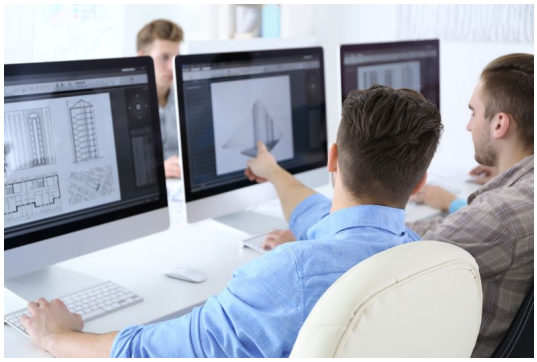
Airfinity™ rooftop air-to-air units combine heating, cooling, and ventilation all in one package, for simplified installation and operation. They are suitable for a wide range of applications, particularly where low initial cost and easy installation are important such as supermarkets, shopping malls, cinemas and restaurants.

With a strong legacy of proven reliability, Airfinity rooftops can deliver high seasonal efficiency standards capable of meeting even the most stringent European regulations. By reducing energy and maintenance costs, you can lower your cost of ownership.

Integrated plug & play solution

Our packaged system features integrated controls engineered to create the best possible comfort environment for your investment.

Equipped with EC plug fans and high efficiency VSD compressors, Airfinity™ units are designed to adapt the fan rotation speed according to building load and ventilation requirements. Not only does this improve comfort for occupants by preventing cold drafts, it can also reduce energy consumption by 60% over the lifetime of the unit.



Highly configurable and adaptable

Every Airfinity unit can be customized to meet your exact building type and application specifications, with a wide range of options and accessories including large selection of filtration options to increase indoor air quality.

Airfinity™ S Rooftop units connect directly to local ductwork, with or without a roof curb. Unit sizes 17-42 are also designed to retrofit Voyager I & II units and fit exactly in existing roofcurbs.

For colder climates, complementary heating sources are available such as electric heaters or hot water coils. The smart Trane CH536 unit controller automatically manages multiple heat sources depending on climate conditions and the building load.

Simplified control solutions

Airfinity™ units are equipped with sensors that enable them to regulate the room temperature as soon as they are turned on. For tighter temperature and IAQ control, several options are available.

With the unique Trane Tracer™ Concierge building management system, you can manage multiple rooftop units in a cost-effective and easy way.

Range description

• Airfinity S is available in 8 different sizes with a wide section of options and accessories
• IH: Reversible units

Technical specifications

Cooling capacity	16-59 kW
Heating capacity	15-58 kW
Eurovent certification	●
ErP Certification	●
Refrigerants	R454B
Operating mode	Heat pump
Energy saving	Heat recovery | Free cooling | Adaptive Frequency™ Drive
Compressor	Scroll

Product data

Airfinity S R454B

	Pc (1) kW	Pe(c) (1) kW	EER (1)	Qv nom (1) m3/h	ESP (1) Pa	Ph (1) kW	Pe(h) (1) kW	COP (1)	Lwo Env (2) dB(A)	SEER (1)	ηs,c (1) %	SCOP (1)	ηs,h (1) %	H (3) mm	L (3) mm	W (3) mm	OW (3) kg
IH017 R454B	15,7	6,1	2,59	3600	60	15,0	4,8	3,14	84	3,84	150,6	3,20	125,1	1397	2176	1169	445
IH019 R454B	17,6	6,4	2,77	4200	60	16,7	5,2	3,23	85	3,86	151,4	3,21	125,5	1662	2368	1354	550
IH023 R454B	22,0	8,0	2,73	5000	72	21,5	6,8	3,19	86	3,86	151,4	3,20	125,1	1662	2368	1354	550
IH027 R454B	25,1	10,0	2,51	5500	72	25,2	8,4	2,99	88	3,84	150,8	3,20	125,2	1662	2368	1354	550
IH030 R454B	29,4	10,0	2,94	6600	72	28,4	8,4	3,39	90	4,75	186,8	3,20	125,1	1722	2791	1832	730
IH036 R454B	34,2	12,6	2,71	7800	85	33,9	10,2	3,33	90	4,60	181,0	3,21	125,2	1722	2791	1832	730
IH051 R454B	49,1	13,7	3,58	9650	110	47,5	13,6	3,50	86	5,27	207,8	3,26	127,4	1565	2830	2250	891
IH061 R454B	58,8	19,0	3,09	11580	110	57,7	16,7	3,46	88	5,05	199,0	3,26	127,4	1565	2830	2250	901

Pc: Cooling Capacity
Pe(c): Total Power Inputs in cooling
EER: Energy efficiency ratio in cooling
Qv nom: Nominal airflow rate
ESP: External static pressure
Ph: Heating Capacity
Pe(h): Total Power Inputs in heating
COP: Coefficient of performance in heating
Lwo Env: A-weighted Sound Power Level outside
SEER: Seasonal energy efficiency ratio
ηs,c: Seasonal space cooling energy efficiency
SCOP: Seasonal coefficient of performance
ηs,h: Seasonal space heating energy efficiency
H: Height
L: Length
W: Width
OW : Operating weight

(1): Data According to EN14511:2022 nominal conditions (cooling: outdoor 35°C DB, Indoor 27°C DB/19°C WB; heating: 7°C DB.6°C WB, indoor 20°C DB) and Seasonal efficiency according to EN 14825:2022 (average climate).
(2): Sound power level according to ISO 9614:2009 (without accessories)
(3): Weight includes G4 filters, economizer and the full refrigerant charge

Improve Operations

Technology is continuously evolving and Trane Engineering is ahead of the curve in bringing innovation into product development. Our sustainable solutions deliver enhancements to the Trane installed base to make your chillers and heat pumps even "better than before". That's Trane Building Advantage - TBA.

Trane Rental Services

Cooling and heating are services, not products. A process or a building does not need a chiller or a boiler sitting on a roof, but a reliable and efficiency supply of cold or hot water, cold or warm air. This is the essence of what we do at Trane Rental Services. Let us take care of it for you.

Read more https://trane.eu/rental